FIGURE 1A

RAT CEREBRAL CORTICAL CULTURES EXPRESS EPO RECEPTOR

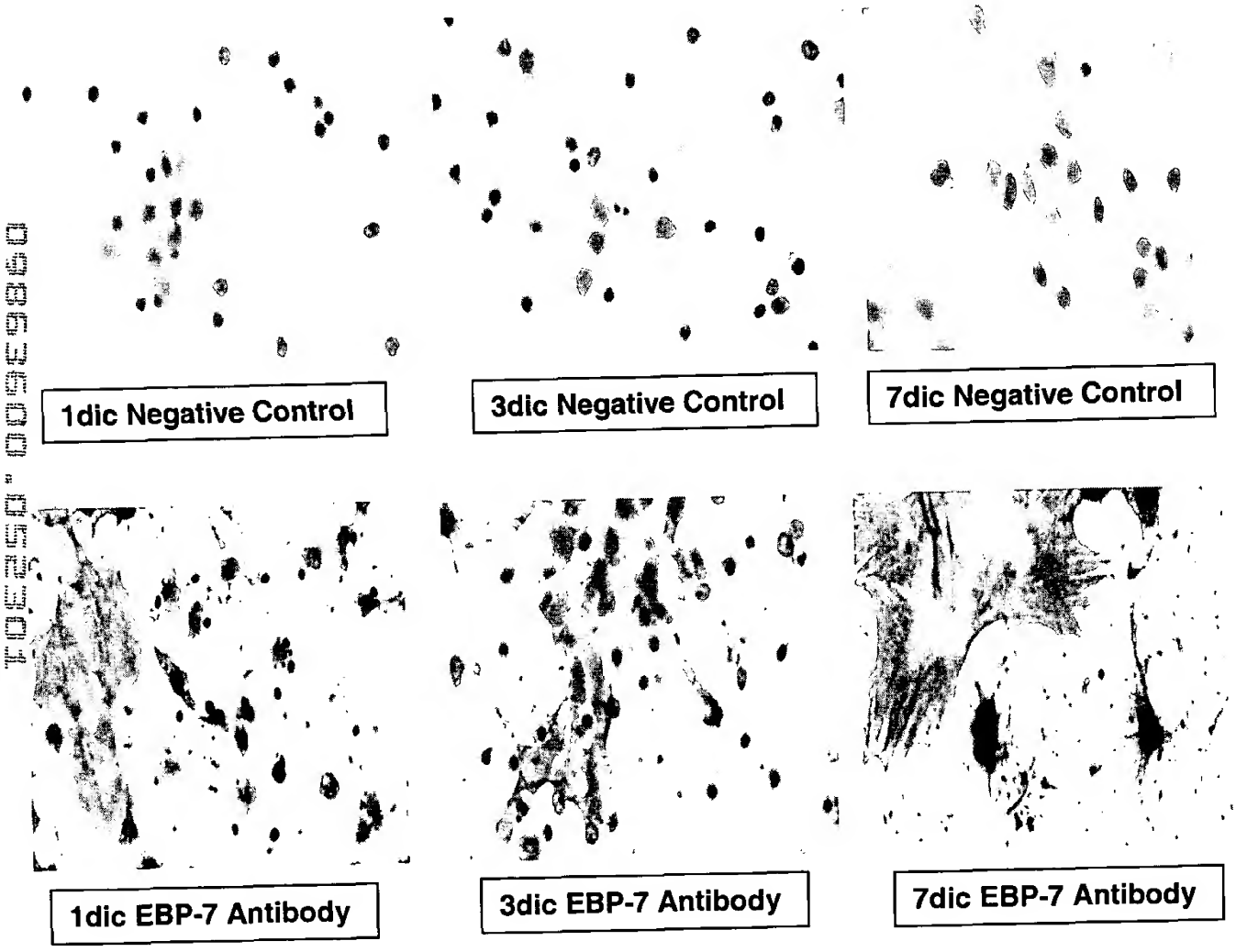


FIGURE 1B

RAT HIPPOCAMPAL CULTURES EXPRESS EPO RECEPTOR

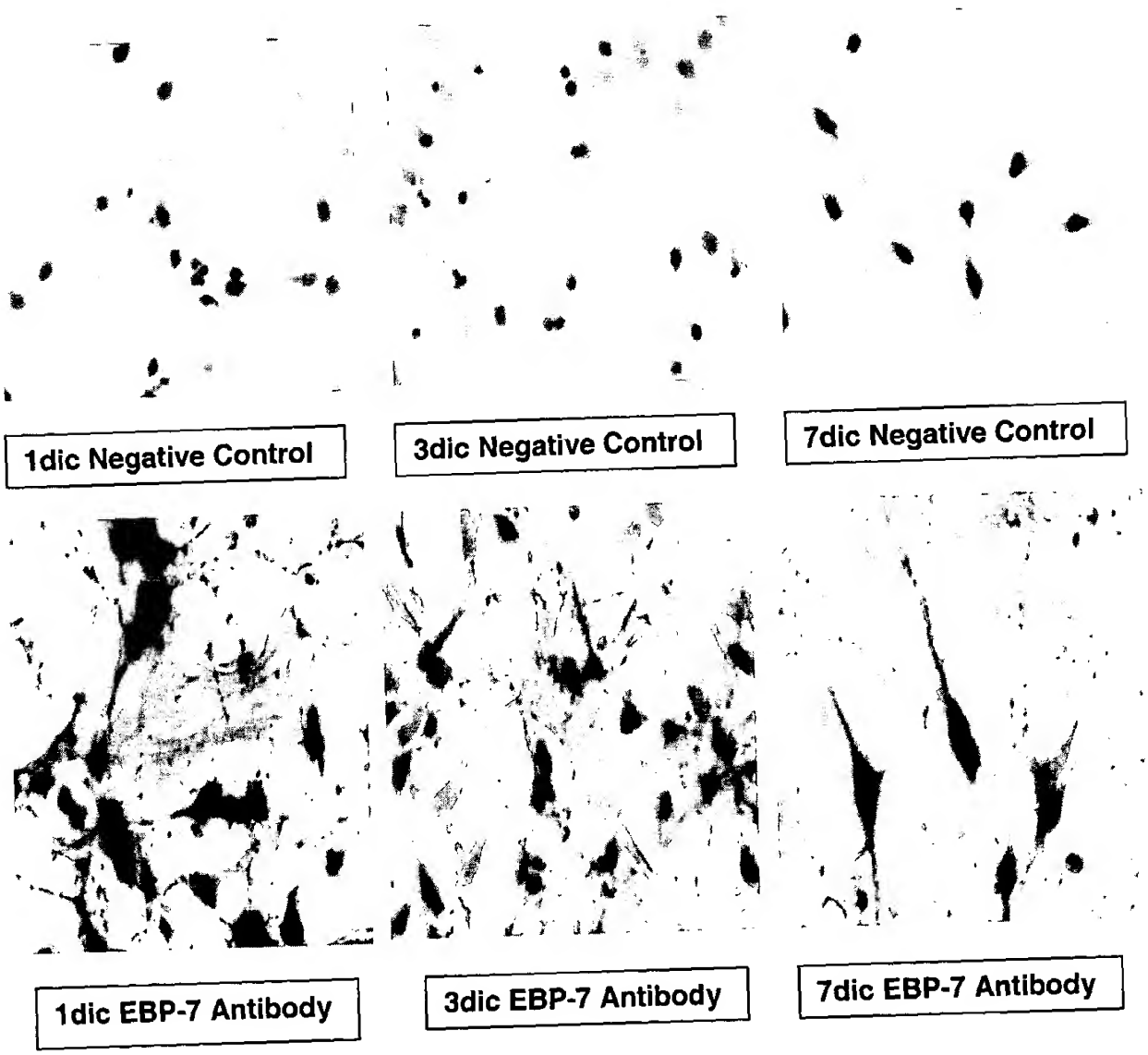


FIGURE 2

EPO RECEPTOR IS EXPRESSED ON PC12 AND SK-N-MC CELLS

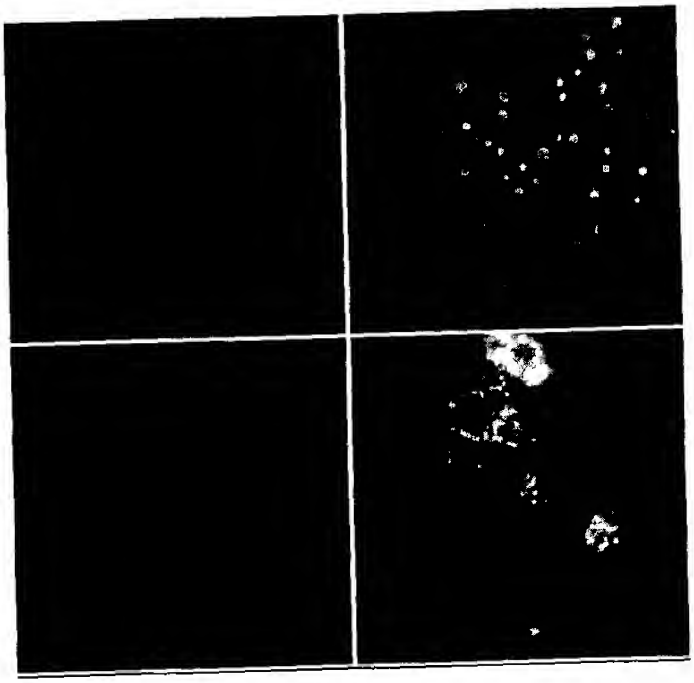
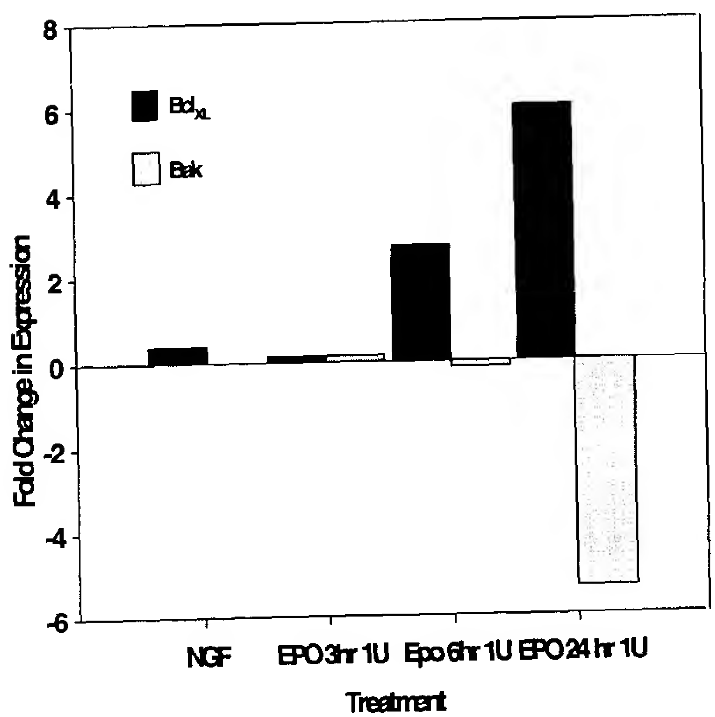


FIGURE 3

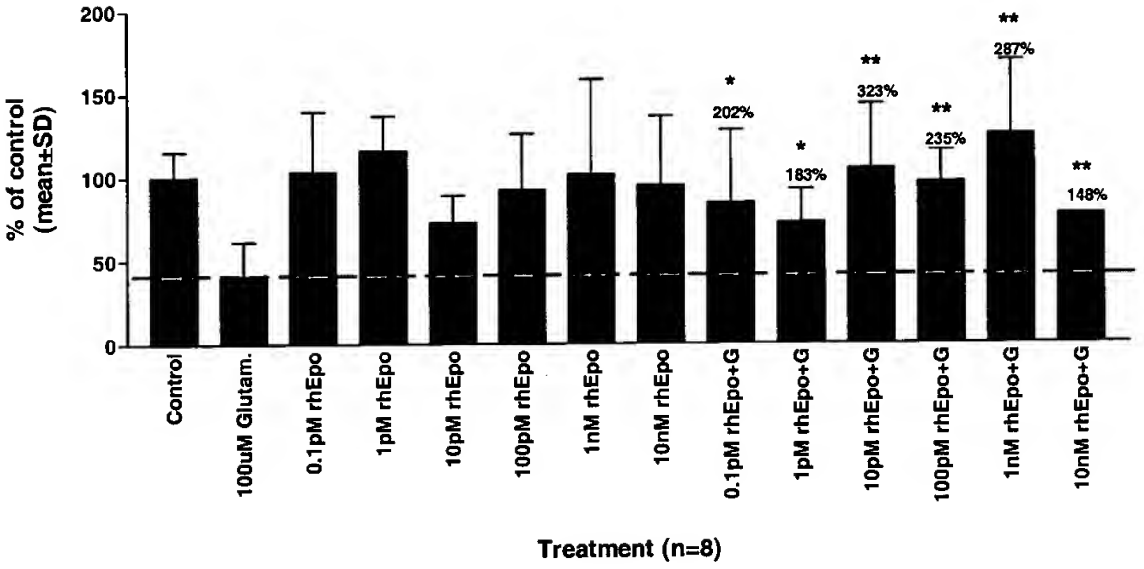
EPO INDUCED GENE EXPRESSION IN PC12 CELLS



Erythropoietin regulates the expression of the BCL family members Bcl$_{XL}$ and Bak.

FIGURE 4

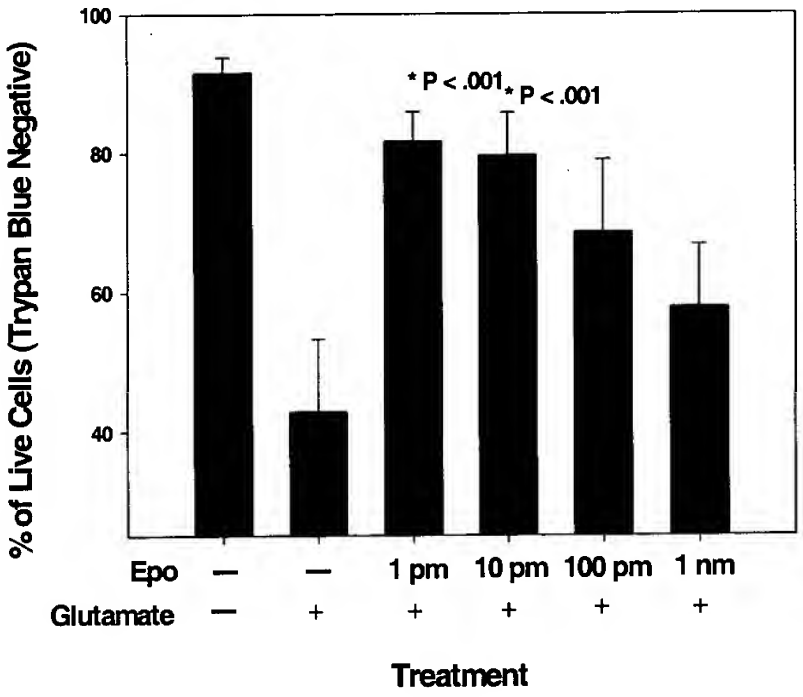
EPO PROTECTS RAT CEREBRAL CORTICAL CELLS FROM GLUTAMATE TOXICITY



t-test (one-tailed) comparison between treatments * p<0.01; ** p<0.001

FIGURE 5

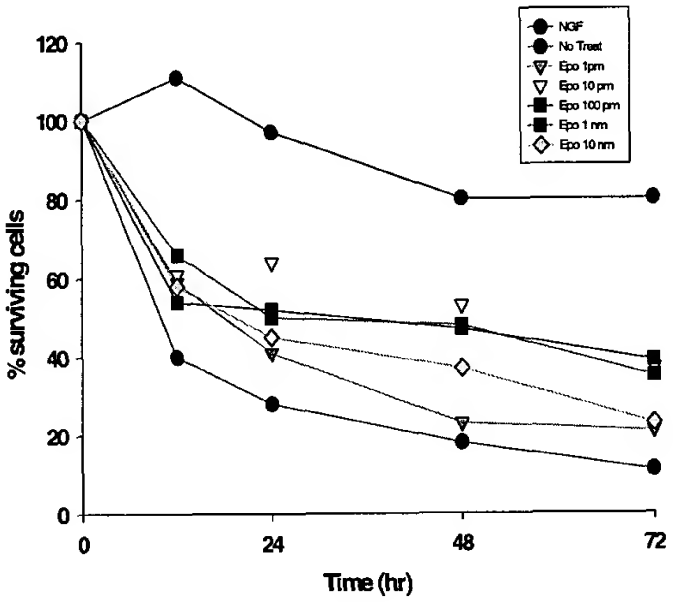
EPO PROTECTS PC12 CELLS FROM GLUTAMATE-INDUCED CELL DEATH



Erythropoietin protects PC-12 cells from glutamate mediated cytotoxicity.

FIGURE 6

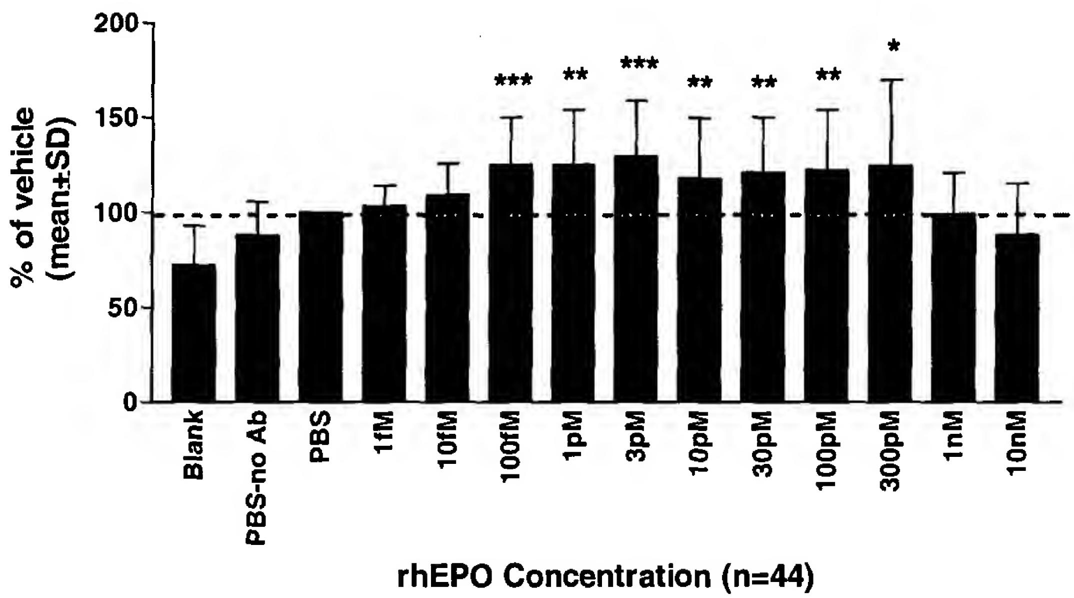
EPO PROTECTS PC12 CELLS FROM NGF WITHDRAWAL-INDUCED CELL DEATH



Erythropoietin protects PC-12 cells against death induced by NGF withdrawal.

FIGURE 7

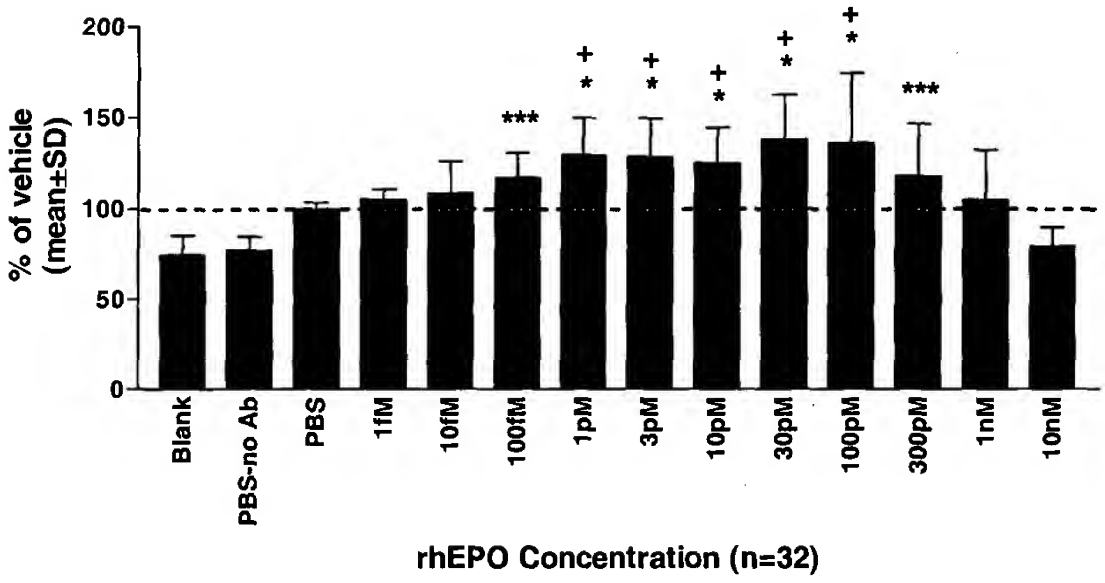
EPO PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES



One-way ANOVA comparison between groups $p<0.0001$; Dunnett's multiple comparison test $p>0.05$, ns unpaired t-test (one-way) *$p<0.05$; **$p<0.01$, ***$p<0.001$

FIGURE 8

EPO PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES



One-way ANOVA comparison between treatment groups p<0.0001;
Dunnett's multiple comparison test *p<0.01;
unpaired t-test (one-tailed) ***p<0.001; + p<0.0001

FIGURE 9

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

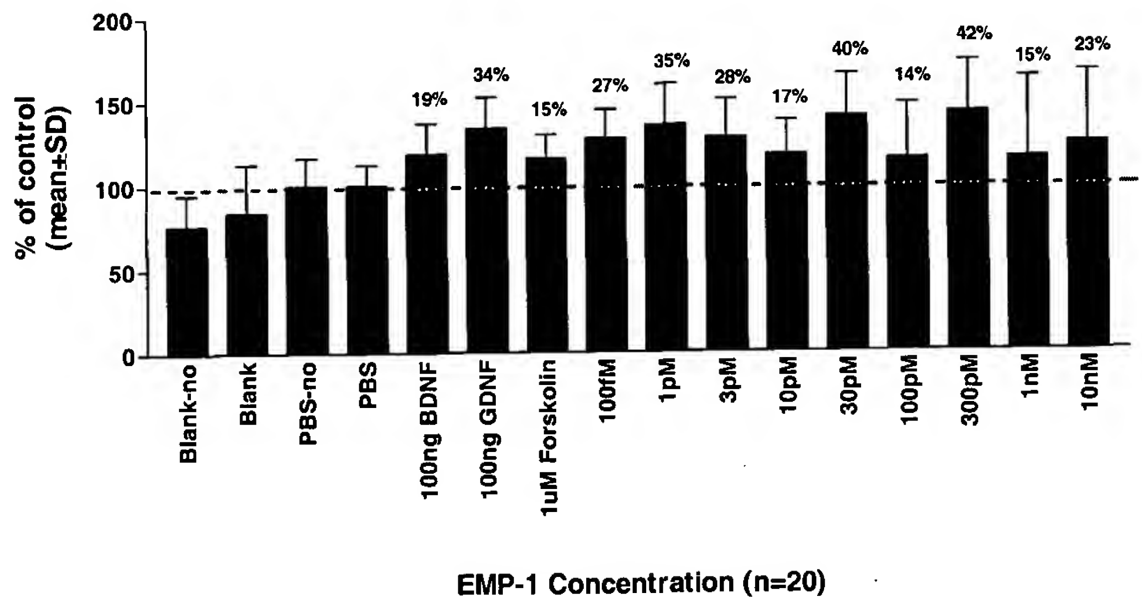


FIGURE 10

EMP-1 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

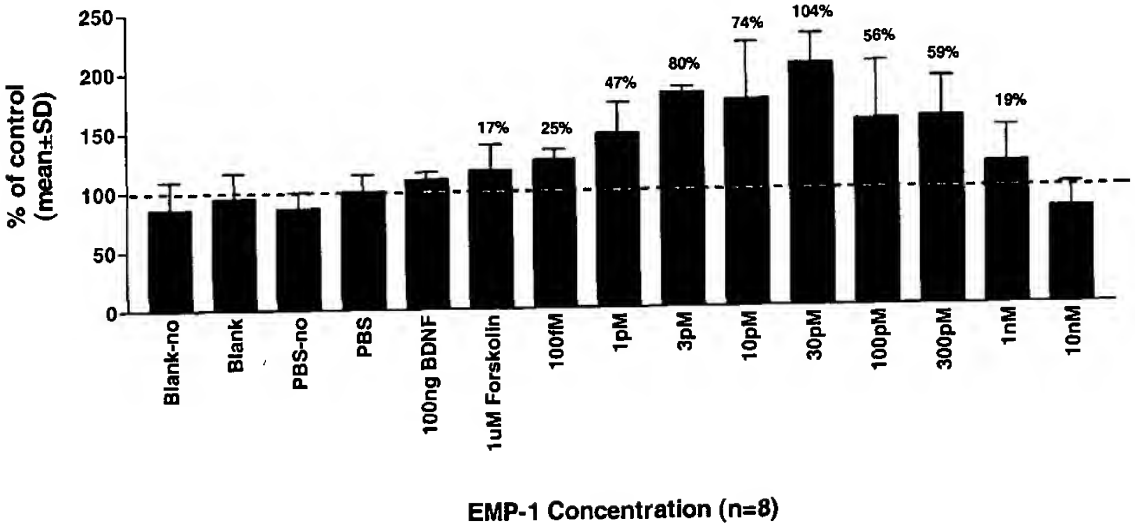


FIGURE 11

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

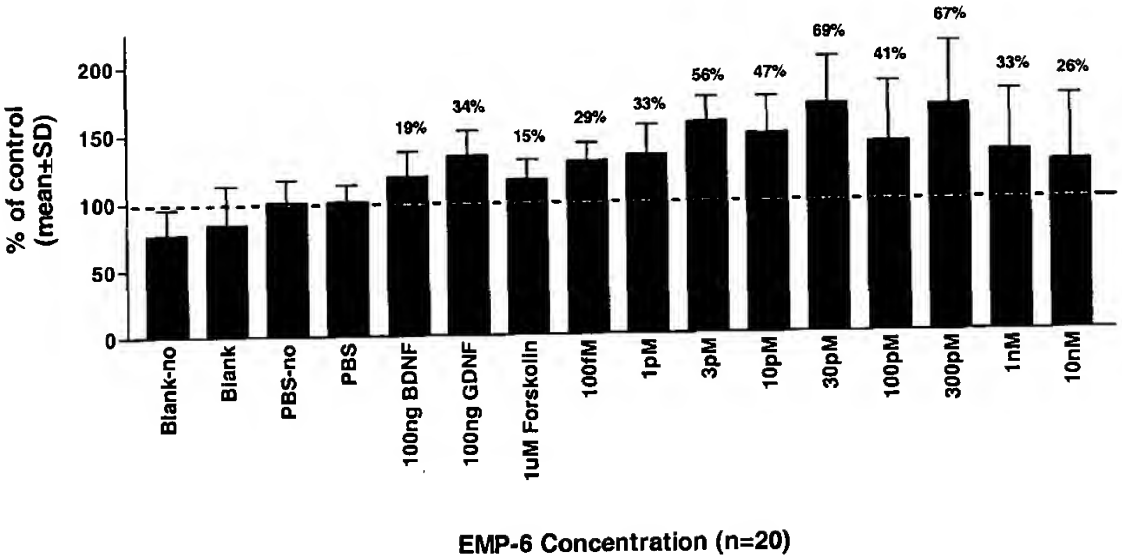


FIGURE 12

EMP-6 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

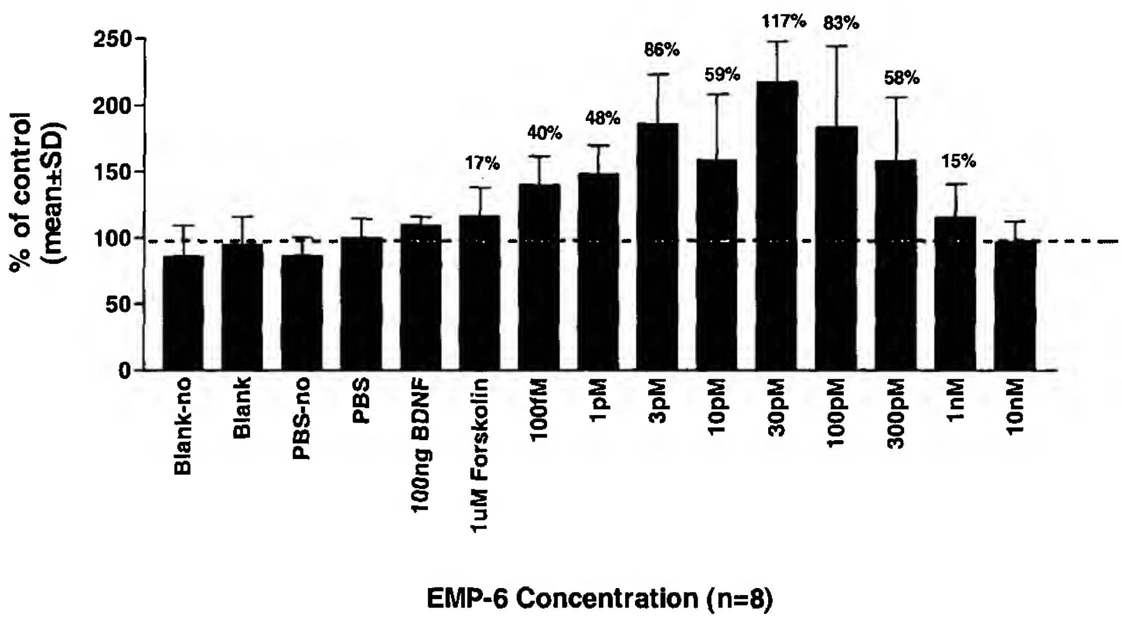


FIGURE 13

EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

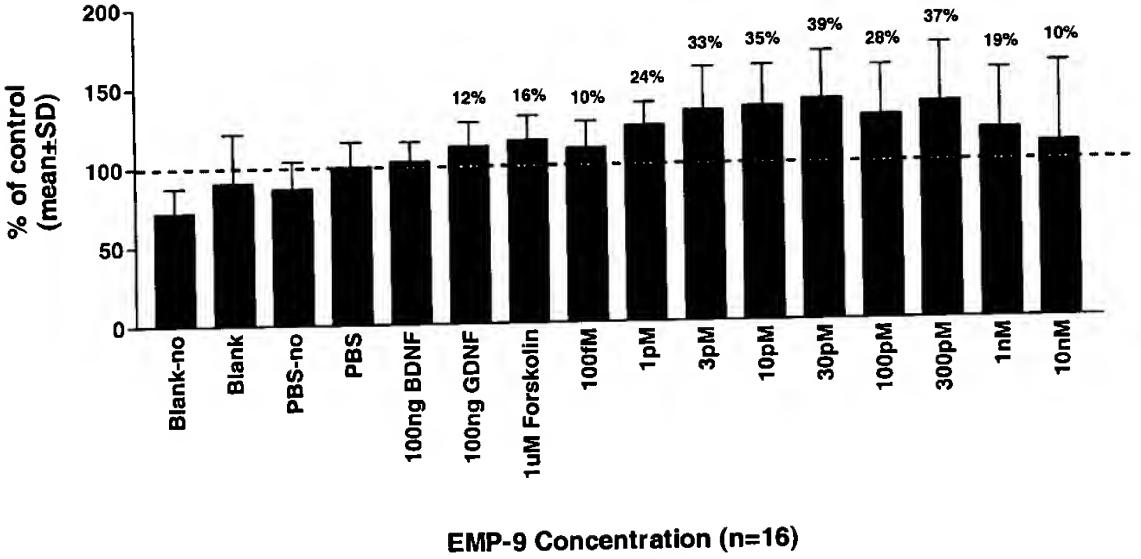


FIGURE 14

EMP-9 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

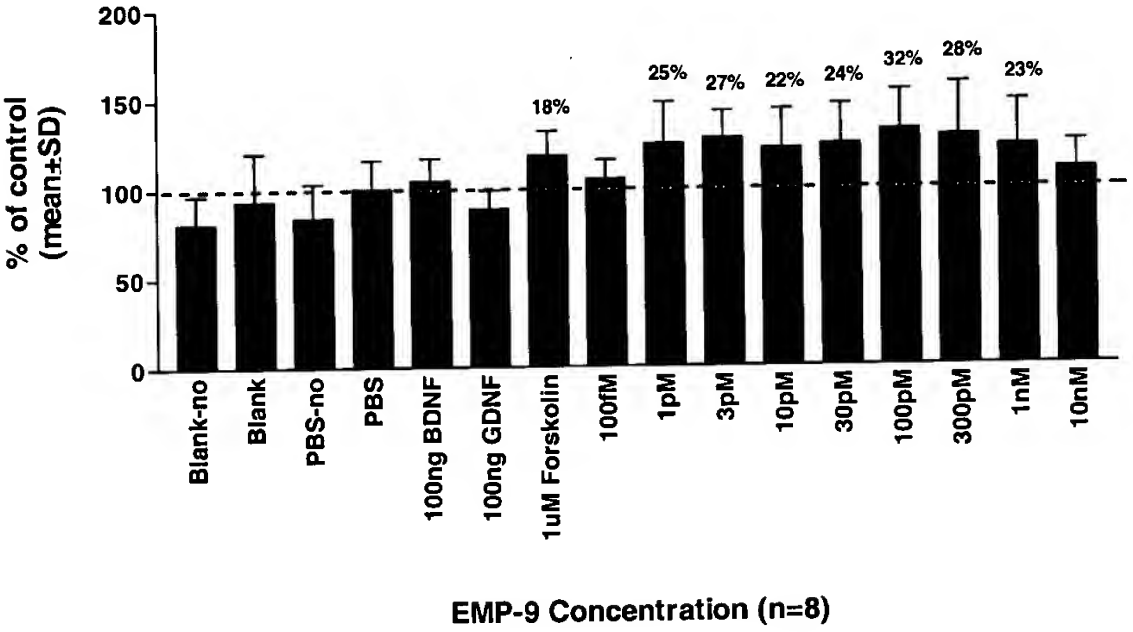


FIGURE 15

EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

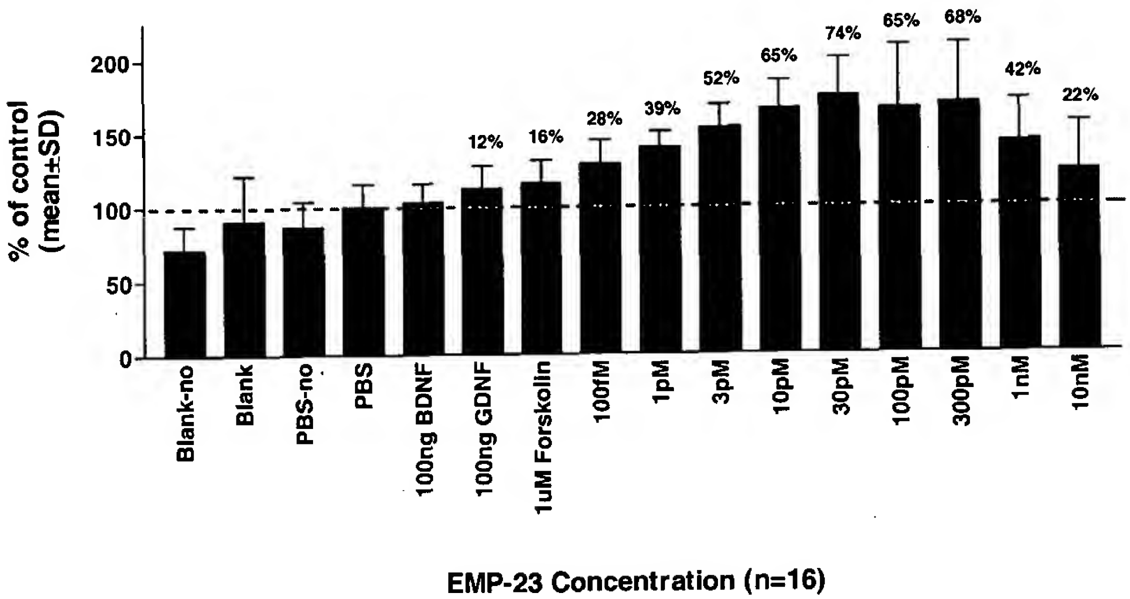


FIGURE 16

EMP-23 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

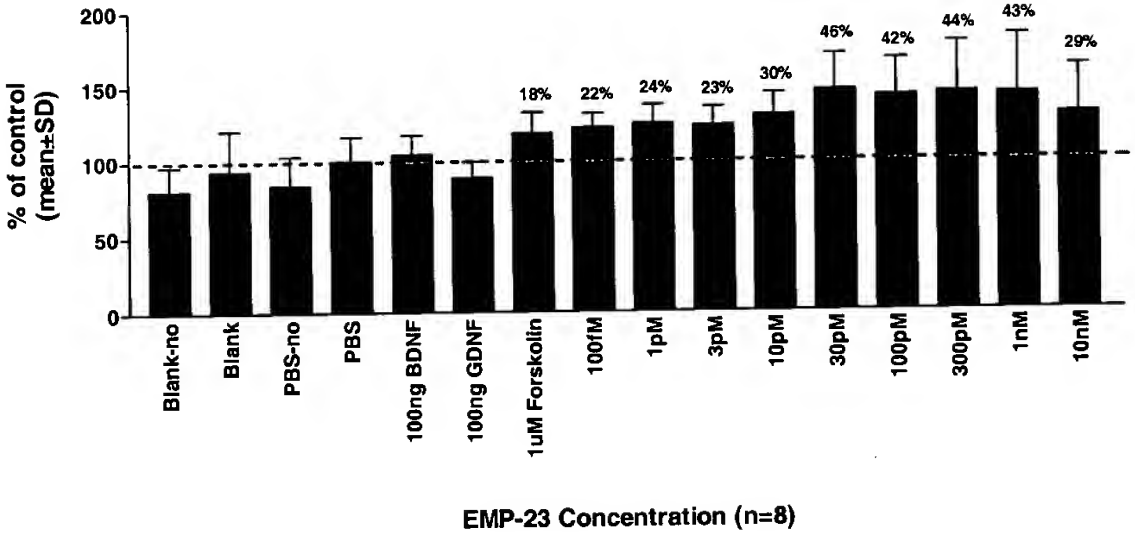


FIGURE 17

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT CEREBRAL CORTICAL CULTURES

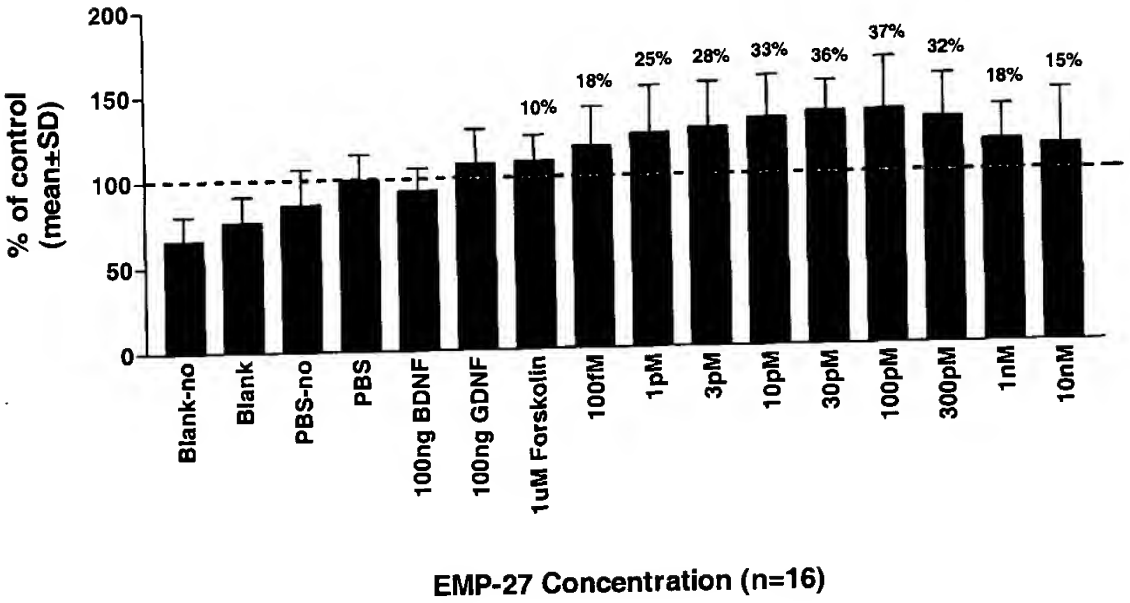


FIGURE 18

EMP-27 PROMOTES NEURITE OUTGROWTH IN RAT HIPPOCAMPAL CULTURES

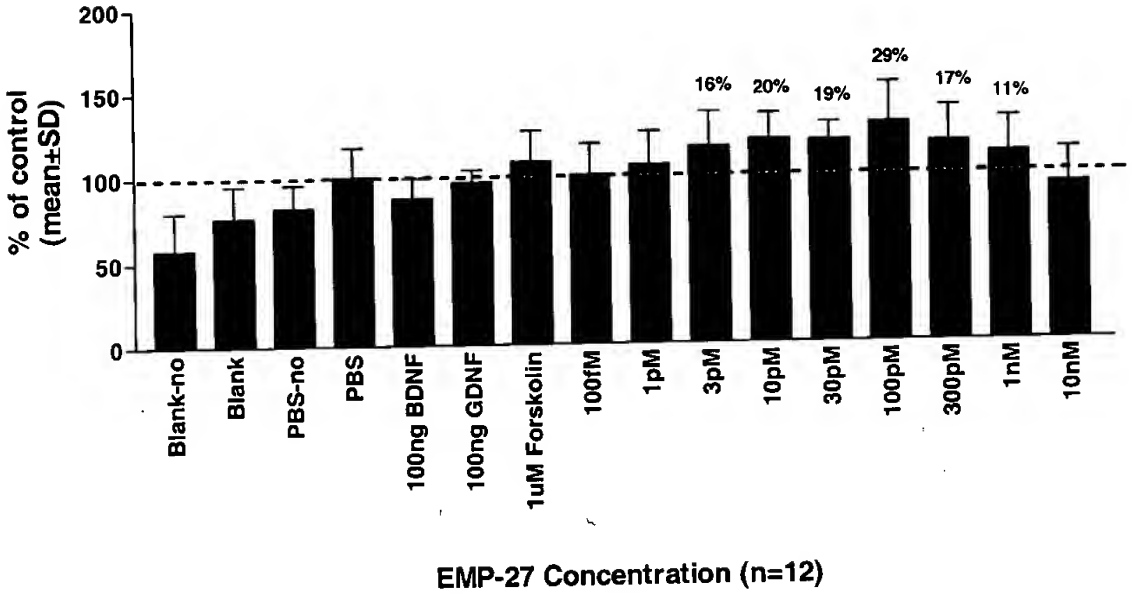
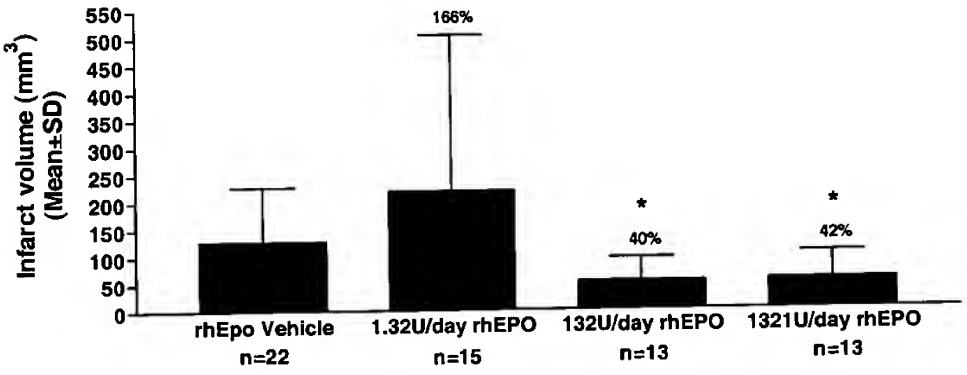


FIGURE 19

STUDY I: EPO PROTECTS AGAINST ISCHEMIC INJURY BY CONTINUOUS INTRAVENOUS INFUSION VIA OSMOTIC MINI-PUMP



One-way ANOVA comparison between treatments p=0.01
t-test (one-tailed) comparison between treatments * p≤0.01

FIGURE 20

STUDY I: PLASMA DETERMINATIONS

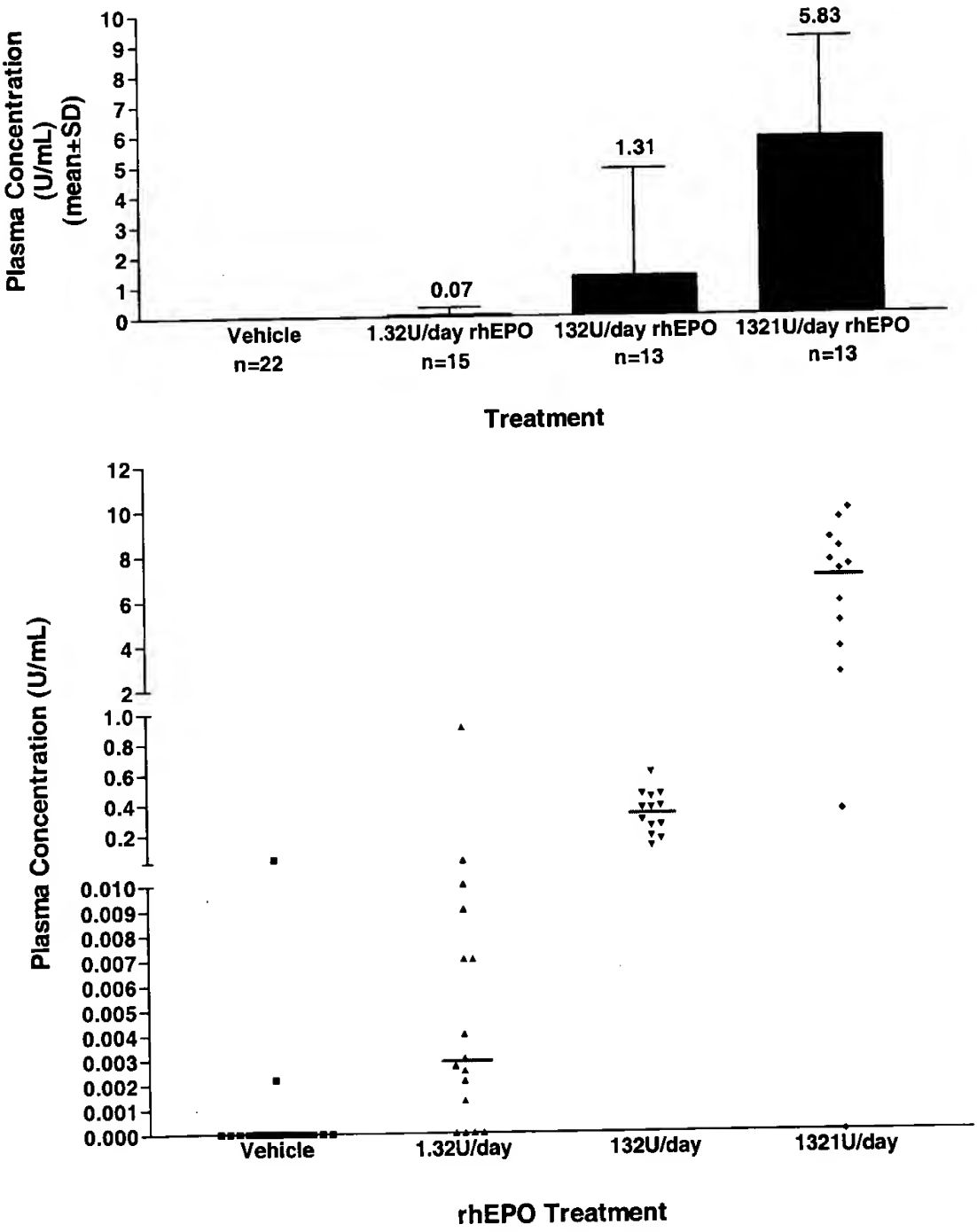
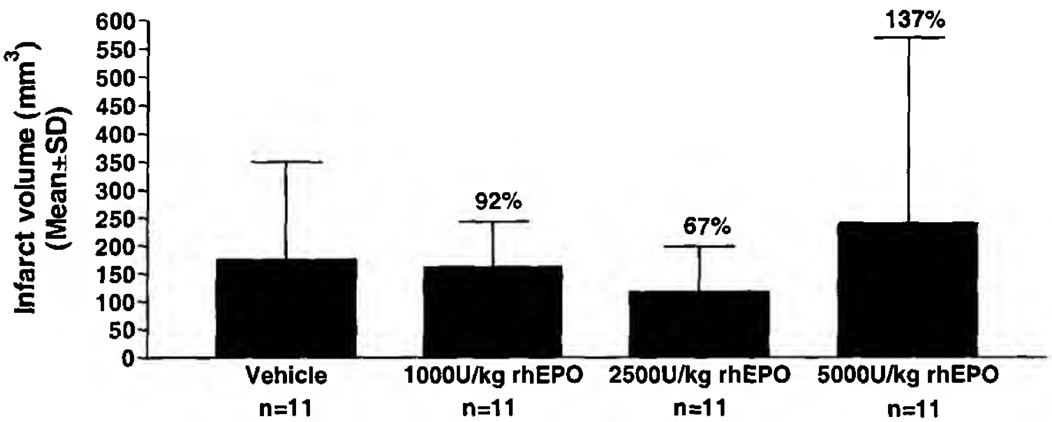


FIGURE 21

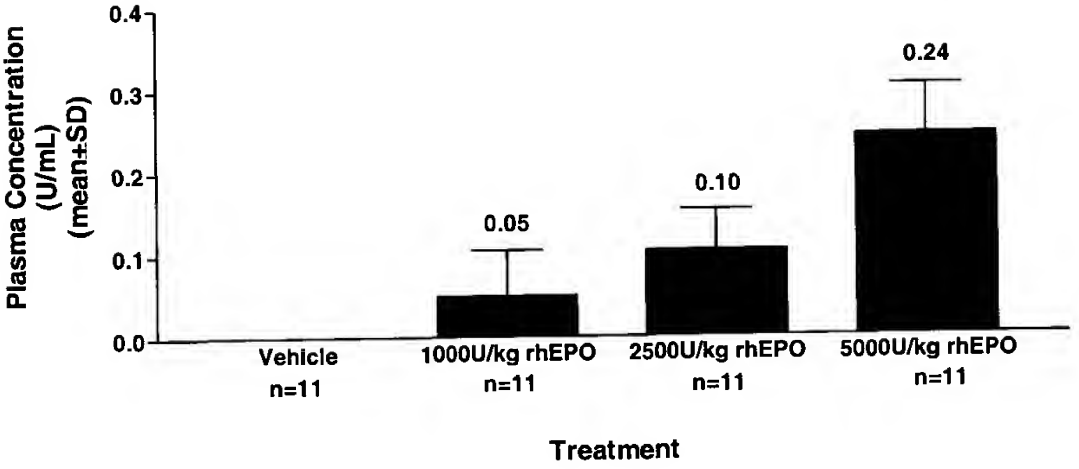
STUDY II: EPO DOES NOT PROTECT AGAINST ISCHEMIC INJURY WHEN ADMINISTERED AS A SINGLE INTRAVENOUS BOLUS



One-way ANOVA comparison between treatment groups; p>0.05, *n.s.*

FIGURE 22

STUDY II: PLASMA DETERMINATIONS



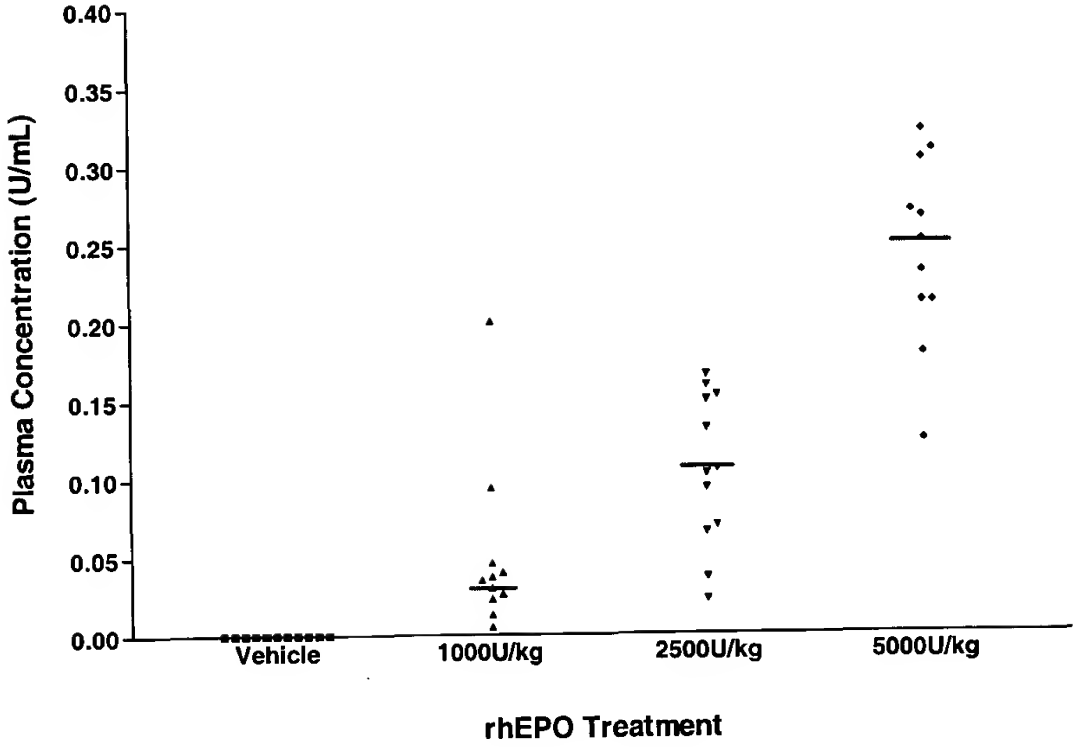
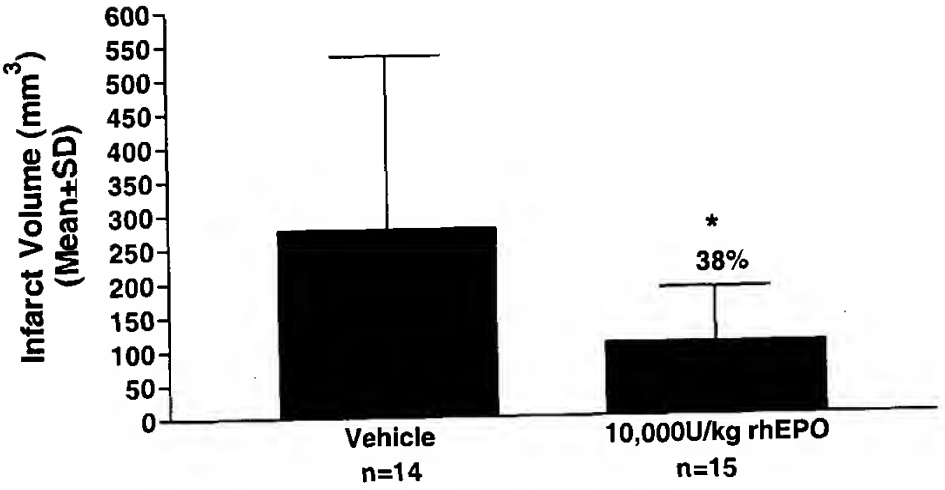


FIGURE 23

STUDY III: EPO PROTECTS AGAINST ISCHEMIC INJURY VIA REPEAT INTRAVENOUS BOLUS DOSING



One-way ANOVA comparison between treatment groups p=0.02
Dunnett's multiple comparison t-test * p<0.05

FIGURE 24

STUDY III: PLASMA DETERMINATIONS

Study III: Plasma Concentration